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# Material datasheet
# Material: PAS-LX

## mechanical characteristics

| Characteristic | Standard | Unit | Value |
|---|---|---|---|
| Yield stress (+23°C, dry) | ISO 527-1/-2<br>DIN 53455<br>ASTM D 638 | MPa (N/mm²) | 43 |
| Yield strain (dry) | ISO 527-1/-2<br>DIN 53455<br>ASTM D 638 | % | 9 |
| Tensile strength (+23°C, dry) | ISO 527-1/-2<br>DIN 53455<br>ASTM D 638 | MPa (N/mm²) | 65 |
| Elongation at break (+23°C, dry) | ISO 527-1/-2<br>DIN 53455<br>ASTM D 638 | % | 10 |
| Tensile E-modulus (+23°C, dry) | ISO 527-1/-2<br>DIN 53455<br>ASTM D 638 | MPa (N/mm²) | 2200 |
| Max. permissible pressure load (continuous) | Faigle | MPa (N/mm²) | 11 |
| Charpy notched impact strength (+23°C, dry) | ISO 179<br>DIN 53453 | kJ/m² | 4 |
| Charpy impact strength (+23°C, dry) | ISO 179<br>DIN 53453 | kJ/m² | 30 |
| Coefficient of sliding friction (p = 0.3N/mm² / 0.6N/mm², v = 0.27m/s, against steel hardened and ground, dry) | | | 0.2 |

## thermal characteristics

| Characteristic | Standard | Unit | Value |
|---|---|---|---|
| min. Operating temperature (continuous) | | °C | -40 |
| max. service temperature (continuous) | | °C | 100 |
| max. service temperature (short-term) | | °C | 120 |
| Thermal conductivity (+23°C) | DIN 52612 | W/(m×K) | 0.3 |

## combustibility characteristics

| Characteristic | Standard | Unit | Value |
|---|---|---|---|
| UL94 flammability | IEC 60695-11-10 | class | HB |

For further information, please get in touch with your contact person.



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## physical characteristics

| Characteristic | Standard | Unit | Value |
|---|---|---|---|
| Density, Gross density | ISO 1183<br>DIN 53479<br>ASTM D 792 | g/cm³ | 1.34 |
| Moisture absorption at saturation - standard climate (23°C, 50% RF) | ISO 62 ISO 1110 | % | 0.2 |
| Water absorption at saturation (water storage 23°C) | ISO 62<br>DIN 53495<br>ASTM D 570 | % | 0.8 |

## chemical characteristics

| Characteristic | Standard | Unit | Value |
|---|---|---|---|
| UV light and weathering | | | unstable |
| Physiology | Faigle | | suitable |

For further information, please get in touch with your contact person.

These data are guideline values which are subject to change depending on the type of manufacture of the test specimens and stress. These data are based on our own experience and on manufacturer's data. However, they are provided without guarantee, since each application is different and must be considered with reference to its specific influence parameters.